PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

OKABE, Masao

No.602, Fuji Bldg., 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 1000005 Japan

PCT



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 10009594W001 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/004586 09.03.2005 10.03.2004 International Patent Classification (IPC) or both national classification and IPC Int.Cl. H01L51/00 Applicant CANON KABUSHIKI KAISHA

١.	This	This opinion contains indications relating to the following items:					
	V	Box No. I	Basis of the opinion				
	Γ	Box No. II	Priority				
	Г	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Г	Box No. IV	Lack of unity of invention				
	V	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Γ.	Box No. VI	Certain documents cited				
	T	Box No. VII	Certain defects in the international application				
	Γ	Box No. VIII	Certain observations on the international application				

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Date of completion of this opinion 07.06.200	95	
Name and mailing address of the ISA/JP	Authorized officer 4M 2 9	3 4
Japan Patent Office	WATAHIKI TAKASHI	
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101 Ext. 3460	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/004586

Box	r No. I	Basis of the opinion					
 With regard to the language, this opinion has been established on the basis of the international applicate which it was filed, unless otherwise indicated under this item. 			ation in the language in				
	Thi	s opinion has been established on the basis of a translation from the original language into the					
	Ru	, which is the language of a translation furnished for the purposes of inteles 12.3 and 23.1(b)).	manonai search (under				
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary claimed invention, this opinion has been established on the basis of: 							
	a. type of	material					
		a sequence listing					
	Г	table(s) related to the sequence listing					
	b. format	of material					
	Г	in written format					
	Г	in computer readable form					
	c. time of	filing/furnishing					
	Γ	contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4	Additions	l comments:					
4.	Additiona	Comments.	-				
			<u>.</u>				
			•				
		•					
			_				
			٠				
		•					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/004586

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims		· YES
• • •	Claims	1-37	. NO
Inventive step (IS)	Claims		YES
	Claims	1-37	NO
Industrial applicability (IA)	Claims	1-37	YES
	Claims		NO

2. Citations and explanations

D1:US 2003/0226996 A1(ARAMAKI et al.)2003.12.11,

WHOLE DOCUMENT, FIGS.1-10 & JP 2003-304014 A & JP 2004-6750 A D2:WO 2003/041186 A2(3M INNOVATIVE PROPERTIES COMPANY)2003.05.15, WHOLE DOCUMENT & US 2003/0102472 A1 & EP 1442487 A2 D3:WO 2004/012271 A1(MITSUBISHI CHEMICAL CORPORATION)2004.02.05,

WHOLE DOCUMENT FIG.3 & JP 2004-128467 A

[Claims 21-27, 29-35, 37]

The subject matter of claims 21-27,29-35,37 does not appear to be novel with respect to D1 cited in the ISR.

D1 discloses that the thin film is formed in order to control the molecular alignment ([0158]-[0161]).

[Claims 1-37]

The subject matter of claims 1-37 does not appear to involve an inventive step in view of D1-D2.

D2 discloses the organic transistor having a siloxane polymer layer. And D1 discloses the organic transistor having an organic semiconductor layer composed of porphyrin.

Therefore, the person skilled in the art can readily conceive the idea of adopting the organic semiconductor layer disclosed in D1 to the organic transistor disclosed in D2.

[Claims 1-37]

The subject matter of claims 1-37 does not appear to be novel with respect to D3 cited in the ISR.

D3 discloses the organic transistor having an organic semiconductor layer composed of porphyrin and substrate composed of siloxane(p6,p9). And D3 discloses providing an organic semiconductor precursor and forming an organic semiconductor layer by applying heat energy to the precursor.